

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. -11. (canceled)
12. (new) A stereomicroscope (1) for magnifying an object (T) emitting an object beam (K1) in a first direction, the stereomicroscope comprising:
 - at least one zoom (22) through which, in an operating state, a light beam corresponding to the object beam is directed;
 - a first deflection device (P4) arranged after the zoom (22) in a path of the light beam to deflect the light beam transmitted through the zoom into a second direction that deviates by more than +/-135° from the first direction of the object beam or from a parallel offset of the first direction.
13. (new) The stereomicroscope according to Claim 12, wherein the second direction is substantially opposite to the first direction or to a parallel offset of the first direction.
14. (new) The stereomicroscope according to Claim 12, wherein the second direction is substantially toward the object (T).
15. (new) The stereomicroscope according to Claim 12, further comprising:
 - a viewing tube;
 - a second deflection device (P5) arranged after the first deflection device (P4) in the path of the light beam for deflecting the light beam deflected by the first deflection device into the viewing tube.

16. (new) The stereomicroscope according to Claim 15, wherein the second deflection device (P5) deflects the light beam in a direction opposite to the direction of the light beam as the light beam passes through the zoom (22).
17. (new) The stereomicroscope according to Claim 15, wherein the zoom (22) is arranged along an axis substantially perpendicular to the first direction of the object beam (K1), and the stereomicroscope further comprises:
a third deflection device (P1), arranged before the zoom (22) in the path of the object beam for deflecting the object beam (K1) into the zoom (22), wherein the second deflection device (P5) and the third deflection device (P1) are arranged next to one another.
18. (new) The stereomicroscope according to Claim 17, wherein each of the second and third deflection devices (P5, P1) comprises a light-reflecting front surface and a rear surface, and the second deflection device (P5) and the third deflection device (P1) are arranged with their respective rear surfaces facing toward one another.
19. (new) The stereomicroscope according to claim 18, wherein the respective rear surfaces of the second deflection device (P5) and the third deflection device (P1) are joined to one another.
20. (new) The stereomicroscope according to Claim 17, wherein the viewing tube (4) is arranged after the second deflection device (P5) in the path of the light beam, and the second deflection device (P5) and third deflection device (P1) are rotatable in such a way that the object beam (K1) is selectively guidable into the viewing tube, bypassing the zoom (22).

21. (new) The stereomicroscope according to Claim 17, wherein a mirror layer (S or S') that reflects light from front and rear surfaces thereof is arranged between and shared by the second deflection device (P5) and the third deflection device (P1).
22. (new) The stereomicroscope according to Claim 21, wherein the second deflection device (P5) and the third deflection device (P1) are embodied together in one piece.
23. (new) The stereomicroscope according to any of Claims 17, wherein the first, second, or third deflection device (P4, P5, P1) comprises optical means for eliminating an image reversal.
24. (new) The stereomicroscope according to Claim 23, wherein the optical means includes roof edges.
25. (new) The stereomicroscope according to Claim 23, wherein the optical means includes a system forming an intermediate image.